

**GRADE STABILIZATION STRUCTURE - 410**

Where an embankment dam is utilized as a grade stabilization structure, refer to the record requirements for Ponds - 378. The following is the minimum record requirements for the design and construction of a grade stabilization structure other than an embankment dam.

**Design Survey**

The following information shall be obtained and recorded in the field notes:

- a. Profile and cross-section of channel.
- b. Topographic information.
- c. Soil investigation.

**Design Data**

The following shall be considered minimum in the design of all grade stabilization structures. The information shall be recorded in the design notes. Appropriate data should be transferred to the construction drawings.

- a. Hydrologic computations.
- b. Hydraulic design.
- c. Soil and geologic data.
- d. Structural design.
- e. Sediment yields computations.
- f. Quantity computations.
- g. Records indicating NRCS obligations regarding State and Federal regulations have been met.

**Drawings and Specifications**

The construction drawings shall include, but will not be limited to the following:

- a. Overall plan view.
- b. Sectional views with dimensions and elevations.
- c. Reinforcing steel placement details.
- d. Steel schedules.
- e. Table of quantities.
- f. Location map.

Practice Specifications along with applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction.

### **Layout Survey Notes**

The following information shall be recorded in the field notes:

- a. Location and alignment stakes.
- b. Grade stakes with offset reference stakes.

### **Compliance Checks**

The complexity of the structure will dictate the need for compliance checks during construction. All compliance checks shall be recorded in the field notes. Narratives of construction checks shall be recorded in the Job Diary or on a sheet in the field notes. Compliance checks shall include, but will not be limited to the following:

- a. Material inspection (results recorded on applicable form).
- b. Reinforcing steel placement.
- c. Statement of Compliance.

### **As-Built Plans**

As-Built drawings shall be prepared for all grade stabilization structures. The drawings shall reflect all significant changes in linear measurements, quantities, alignment or design changes. If there were no significant changes, the original drawings shall be marked "As-Built".